

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-14 (Canceled)

15. (New) A treated substrate made by a method comprising the steps of:
- providing a substrate;
 - exposing said substrate to a plasma glow discharge in the presence of a fluorocarbon gas;
 - maintaining said gas at a pressure between about 50 mTorr and about 400 mTorr;
 - generating said plasma as a modulated glow discharge;
 - pulsing said discharge at an on time of 1-500 milliseconds;
 - pulsing said glow at an off time of 1-1000 milliseconds;
 - maintaining said plasma glow discharge at a power density of 0.02-10 watts/cm²;
 - and
 - applying a hydrophobic coating to said substrate to form a treated substrate.
16. (New) A treated substrate according to Claim 15 wherein the treated substrate has a water contact angle greater than 120 degrees.
17. (New) A treated substrate according to Claim 16 wherein said water contact angle is at least 155 degrees.
18. (New) A treated substrate according to Claim 15 wherein said substrate is made of at least one of the following: metal, glass, ceramic, semiconductor material, and combinations thereof.
19. (New) A treated substrate according to Claim 15 wherein said substrate is selected from the group consisting of polyethylene, polyacrylics, polypropylene, polyvinyl chloride, polyamides, polystyrene, polyurethanes, polyfluorocarbons, polyesters, silicon rubber, hydrocarbon rubbers, polycarbonates, cellulose and its derivatives, and a film of polyethylene and/or polypropylene.
20. (New) A treated substrate according to Claim 15 wherein said substrate comprises granules or particles.

21. (New) A treated substrate according to Claim 15 wherein said substrate is a porous material, selected from the group consisting of: apertured films, fibrous woven materials, non woven materials, porous particles, and granular materials.
22. (New) A shaped treated substrate according to Claim 15 wherein in said method said substrate is formed into a desired shape before the shaped substrate is exposed to said glow discharge.
23. (New) The shaped treated substrate of Claim 22 wherein said shaped substrate is a hollow container and the inside of said container is exposed to said glow discharge.
24. (New) A treated substrate made by a method comprising steps of:
providing a substrate;
exposing said substrate to a plasma discharge in the presence of a monomeric gas;
maintaining said gas at a pressure between about 50 mTorr and about 1,000 mTorr;
generating said plasma as a modulated glow discharge, said plasma having a pulsing on time and a pulsing off time; and
applying a hydrophobic coating to said substrate to form a treated substrate, said hydrophobic coating having a thickness of 0.01-2 microns.
25. (New) A treated substrate according to Claim 24 wherein said treated substrate has a water contact angle of at least 165 degrees.